

FIG. 1

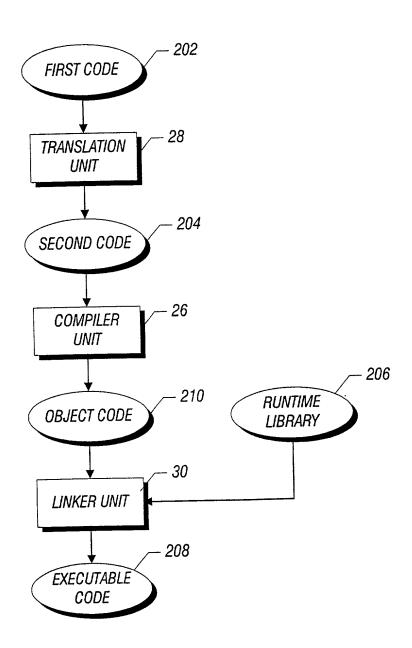


FIG. 2

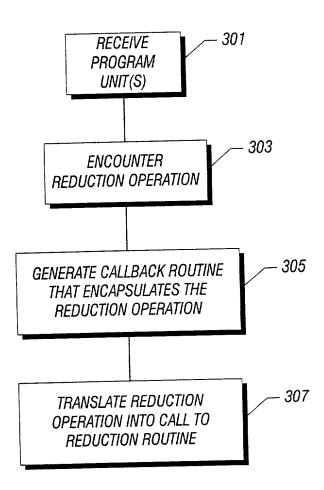


FIG. 3

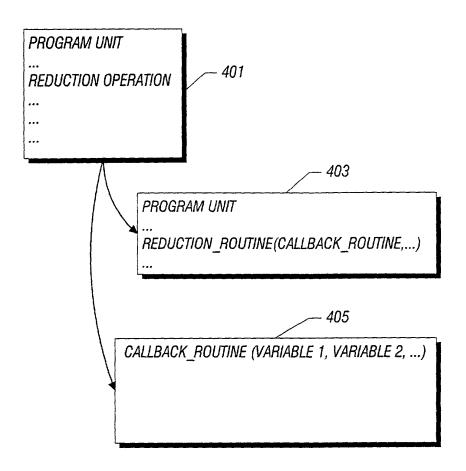


FIG. 4

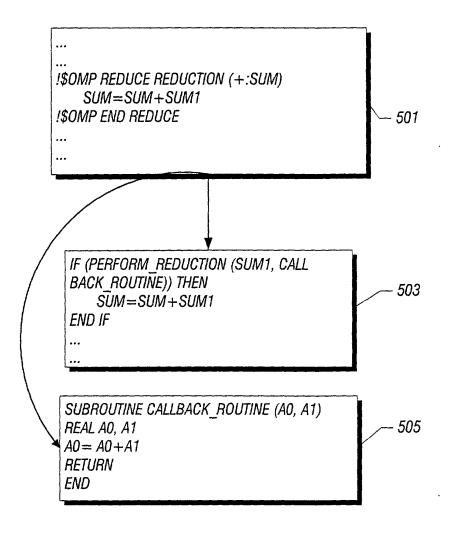


FIG. 5

```
STATIC VOID
*SAVE VAR ADDR[MAX NUM THREADS];
BOOL PERFORM REDUCTION (VOID
*REDUCTION VAR ADDR, FUNCTION PTR CALLBACK ROUTINE)
INT I,J, OFFSET, MY_THREAD_ID;
    MY THREAD ID = GET MY THREAD ID();
    SAVE\_VAR\_ADDR[MY\_THREAD\_ID] = REDUCTION\_VAR\_ADDR;
                                                                 603
    FOR (OFFSET = B; OFFSET <=N; OFFSET *=B) {
                                                          605
       FOR (PARALLEL) (I=0; I < N; I += OFFSET)
                                                       607
           FOR (J=I+(OFFSET/B); J < (I+OFFSET); J+=(OFFSET/B))
                                                                          609
               CALLBACK_ROUTINE (SAVE_VAR_ADDR[I], SAVE_VAR_ADDR[J]);
                                                                             611
  IF (MY_THREAD_ID == 0) RETURN (TRUE); ELSE RETURN (FALSE);
                                                                    613
                                FIG. 6
                                                                     600
```

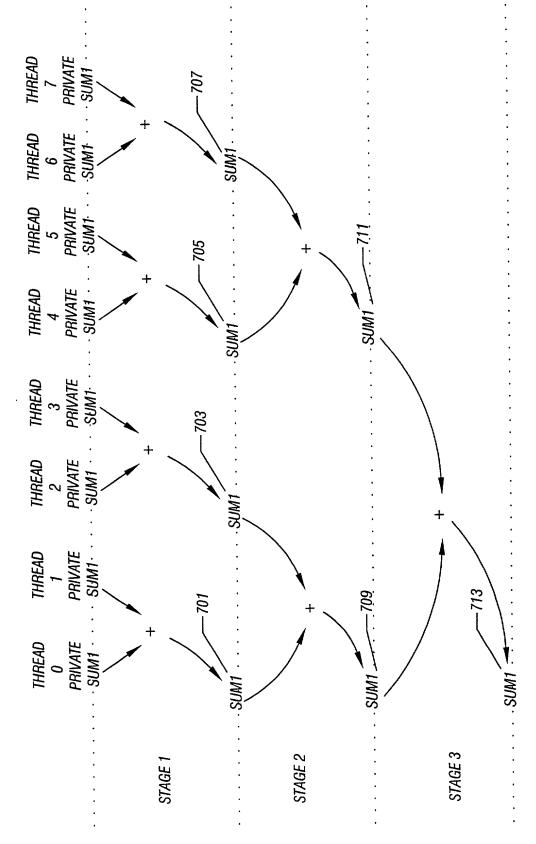


FIG. 7

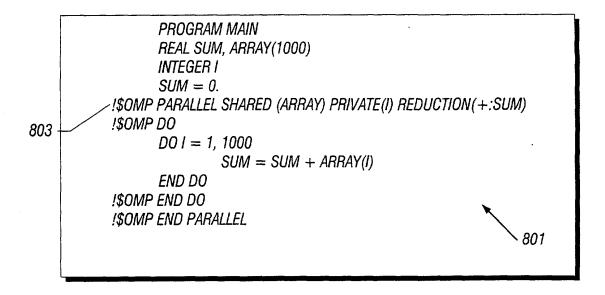


FIG. 8

```
PROGRAM MAIN
                 REAL SUM, ARRAY(1000)
                 INTEGER I
                 SUM = 0.
           !$OMP PARALLEL SHARED (ARRAY,SUM) PRIVATE(I,SUM1)
                 SUM1 = 0
           !$0MP D0
                 D01 = 1,1000
                          SUM1 = SUM1 + ARRAY(I)
                 END DO
           /!$OMP REDUCE REDUCTION(+:SUM)
                 SUM = SUM + SUM1
           !$OMP END REDUCE \
903
           !$OMP END DO
                                                                    901
           !$OMP END PARALLEL
                                       905
```

FIG. 9

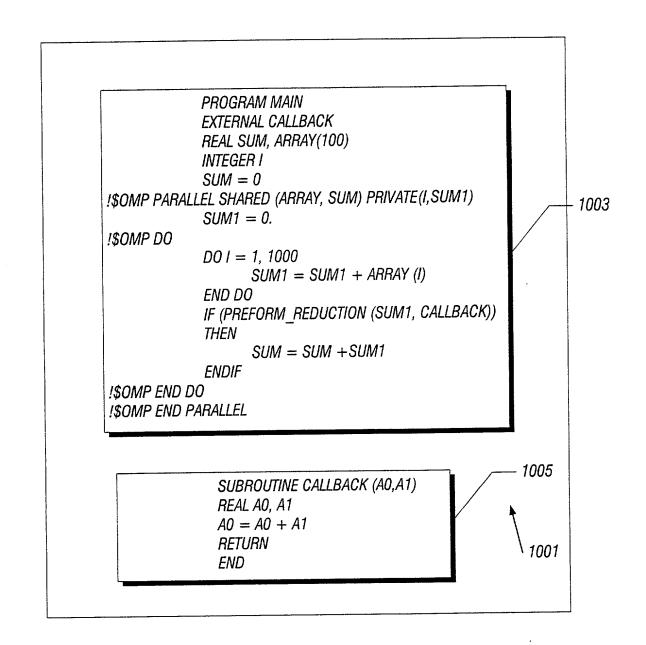


FIG. 10